

Attorney Docket No. NVDA P000679

COMBINED DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

This declaration is of the following type:

- ☒ original
- ☐ divisional
- ☐ continuation
- ☐ continuation-in-part

INVENTORSHIP IDENTIFICATION

My residence, post office address and citizenship are as stated below next to my name. I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

TITLE**POSITION CONFLICT DETECTION AND AVOIDANCE IN A PROGRAMMABLE
GRAPHICS PROCESSOR****SPECIFICATION IDENTIFICATION**

The specification of which:

- ☒ is attached hereto
- ☐ was filed on _____, assigned application Serial No. _____ executed on even date herewith; or
- ☐ Express Mail No. _____ (as Serial No. is not yet known) and was amended on _____ (if applicable)
- ☐ was described and claimed in PCT International Application No. _____ filed on _____ and as amended under PCT Article 19 on _____.

ACKNOWLEDGMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose all information I know to be material to patentability in accordance with Title 37, Code of Federal Regulations, §1.56, and which is material to the examination of this application; namely, information where there is a substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent, and

- ☐ In compliance with this duty there is attached an Information Disclosure Statement in accordance with 37 CFR §1.98.

PRIORITY CLAIM (35 U.S.C. §119)

I hereby claim foreign priority benefits under Title 35, United States Code, §119, of any provisional or foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below, and have also identified below any provisional or foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed.

☒ No such applications have been filed.

☐ Such applications have been filed as follows:

- A. Prior foreign/PCT application(s) filed within 12 mos. (6 mos. for design) prior to this application, and any priority claims under 35 U.S.C. §119

<u>Country/PCT</u>	<u>Application No</u>	<u>Date Filed</u>	<u>Priority Claimed</u>
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No

- B. All foreign application(s), if any, filed more than 12 mos. (6 mos for design) prior to this U.S. application

Country:
Application No:
Filing date:

- C. U.S. Provisional Application filed within 12 months prior to this application

<u>Serial No.</u>	<u>Filing Date</u>
-------------------	--------------------

PRIORITY CLAIM (35 U.S.C. §120)

I hereby claim the benefit under Title 35, United States Code, §120, of any United States application(s) or PCT International application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose information that is material to the examination of this application (namely, information where there is substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent) which occurred between the filing date of the prior application(s) and the national or PCT international filing date of this application.

☒ No such applications have been filed
☐ Such applications have been filed, as follows:

<u>Serial No.</u>	<u>Filing Date</u>	<u>Status</u> (patented, pending, abandoned)
-------------------	--------------------	---

POWER OF ATTORNEY

I hereby appoint the following attorneys and/or agents to prosecute this application and transact all business in the Patent and Trademark Office connected therewith:

I hereby appoint the following attorneys to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith: Stephen H. Pettigrew, Reg. No. 35,978; Paul Carmichael, Reg. No. 18,679; Richard B. Domingo, Reg. No. 36,784; Joseph A. Vo, Reg. No. 43,971; Raymond R. Moser Jr., Reg. No. 34,682; B. Todd Patterson, Reg. No. 37,906; Eamon J. Wall, Reg. No. 39,414; Kin-Wah Tong, Reg. No. 39,400; Keith M. Tackett, Reg. No. 32,008; Douglas H. Elliott, Reg. No. 32,982; James A. Sheridan, Reg. No. 25,435; Stephanie Winner, Reg. No. 52,371; and John C. Carey, Reg. No. 51,530, provided that if any one of said attorneys ceases being affiliated with the law firm of MOSER, PATTERSON & SHERIDAN, LLP as partner, employee or of counsel, such attorney's appointment as attorney and all powers derived therefrom shall terminate on the date such attorney ceases being so affiliated.

Direct all telephone calls to James A. Sheridan at (650) 330-2310

Address all correspondence to:

MOSER, PATTERSON & SHERIDAN, LLP
595 Shrewsbury Avenue, Suite 100
Shrewsbury, New Jersey 07702

File No. NVDA P000679 US

DECLARATION

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and, further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Sec. 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patents issued thereon.

Full name of sole or
first inventor:

David B. Kirk

Inventor's
signature: _____

Date: 12/10/03

Residence: _____

1777 Lafayette Street, Suite 203, Santa Clara, CA 95050

Post Office Address: _____

Same as above.
U.S.A.

Country of Citizenship: U.S.A.

Full name of second
inventor:

Matthew N. Papakipos

Inventor's
signature: _____

Date: _____

Residence: _____

818 Seale Avenue, Palo Alto, CA 94303

Post Office Address: _____

Same as above
U.S.A.

Country of Citizenship: U.S.A.

3 of 4

Full name of third
inventor:

Rui M. Bastos

Inventor's
signature: 

Date: Dec. 9, 03

Residence:

2250 Monroe Street, # 235, Santa Clara, CA 95050

Post Office Address:

Same as above
U.S.A.

Country of Citizenship: Portugal

Full name of fourth
inventor:

John Erik Lindholm

Inventor's
signature: 

Date: Dec 9, 03

Residence:

20682 Rice Court, Saratoga, CA 95070

Post Office Address:

Same as above.
U.S.A.

Country of Citizenship: Canada

Full name of fifth
inventor:

Steven E. Molnar

Inventor's
signature: _____

Date: _____

Residence:

200 Perry Creek Drive, Chapel Hill, NC 27514

Post Office Address:

Same as above
U.S.A.

Country of Citizenship: U.S.A.

Full name of sixth
inventor:

John S. Montrym

Inventor's
signature: 

Date: Dec 9, 2003

Residence:

10451 Serra Street, Cupertino, CA 95014

Post Office Address:

Same as above
U.S.A.

Country of Citizenship: U.S.A.

Full name of seventh
inventor:

Walter E. Donovan

Inventor's
signature: 

Date: 12/9/2003

Residence:

14226 Sobey Road, Saratoga, CA 95070

Post Office Address:

Same as above
U.S.A.

Country of Citizenship: U.S.A.

(Declaration ends on this page)

Attorney Docket N . NVDA P000679

COMBINED DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

This declaration is of the following type:

- ☒ original
- ☐ divisional
- ☐ continuation
- ☐ continuation-in-part

INVENTORSHIP IDENTIFICATION

My residence, post office address and citizenship are as stated below next to my name. I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

TITLE**POSITION CONFLICT DETECTION AND AVOIDANCE IN A PROGRAMMABLE GRAPHICS PROCESSOR****SPECIFICATION IDENTIFICATION**

The specification of which:

- ☒ is attached hereto
- ☐ was filed on _____, assigned application Serial No. _____ executed on even date herewith; or
- ☐ Express Mail No. _____ (as Serial No. is not yet known) and was amended on _____ (if applicable)
- ☐ was described and claimed in PCT International Application No. _____ filed on _____ and as amended under PCT Article 19 on _____.

ACKNOWLEDGMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose all information I know to be material to patentability in accordance with Title 37, Code of Federal Regulations, §1.56, and which is material to the examination of this application; namely, information where there is a substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent, and

- ☐ In compliance with this duty there is attached an Information Disclosure Statement in accordance with 37 CFR §1.98.

1 of 4

PRIORITY CLAIM (35 U.S.C. §119)

I hereby claim foreign priority benefits under Title 35, United States Code, §119, of any provisional or foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below, and have also identified below any provisional or foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed.

☒ No such applications have been filed.

☐ Such applications have been filed as follows:

- A. Prior foreign/PCT application(s) filed within 12 mos. (6 mos. for design) prior to this application, and any priority claims under 35 U.S.C. §119

<u>Country/PCT</u>	<u>Application No</u>	<u>Date Filed</u>	<u>Priority Claimed</u>
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No

- B. All foreign application(s), if any, filed more than 12 mos. (6 mos for design) prior to this U.S. application

Country:
Application No:
Filing date:

- C. U.S. Provisional Application filed within 12 months prior to this application

<u>Serial No.</u>	<u>Filing Date</u>
-------------------	--------------------

PRIORITY CLAIM (35 U.S.C. §120)

I hereby claim the benefit under Title 35, United States Code, §120, of any United States application(s) or PCT international application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose information that is material to the examination of this application (namely, information where there is substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent) which occurred between the filing date of the prior application(s) and the national or PCT international filing date of this application.

☒ No such applications have been filed

☐ Such applications have been filed, as follows:

<u>Serial No.</u>	<u>Filing Date</u>	<u>Status</u> (patented, pending, abandoned)
-------------------	--------------------	---

POWER OF ATTORNEY

I hereby appoint the following attorneys and/or agents to prosecute this application and transact all business in the Patent and Trademark Office connected therewith:

I hereby appoint the following attorneys to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith: Stephen H. Pettigrew, Reg. No. 35,978; Paul Carmichael, Reg. No. 18,679; Richard B. Domingo, Reg. No. 36,764; Joseph A. Vo, Reg. No. 43,871; Raymond R. Moser Jr., Reg. No. 34,682; B. Todd Patterson, Reg. No. 37,908; Eamon J. Wall, Reg. No. 39,414; Kin-Wah Tong, Reg. No. 39,400; Keith M. Tackett, Reg. No. 32,008; Douglas H. Elliott, Reg. No. 32,982; James A. Sheridan, Reg. No. 25,435; Stephanie Winner, Reg. No. 52,371; and John C. Carey, Reg. No. 51,530, provided that if any one of said attorneys ceases being affiliated with the law firm of MOSER, PATTERSON & SHERIDAN, LLP as partner, employee or of counsel such attorney's appointment as attorney and all powers derived therefrom shall terminate on the date such attorney ceases being so affiliated.

Direct all telephone calls to James A. Sheridan at (650) 330-2310

Address all correspondence to:

MOSER, PATTERSON & SHERIDAN, LLP
595 Shrewsbury Avenue, Suite 100
Shrewsbury, New Jersey 07702

File No. NVDA P000679 US


DECLARATION

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and, further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Sec. 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patents issued thereon.

Full name of sole or first inventor: David B. Kirk

Inventor's signature: _____ Date: _____
Residence: 1777 Lafayette Street, Suite 203, Santa Clara, CA 95050
Post Office Address: Same as above.
U.S.A. Country of Citizenship: U.S.A.

Full name of second inventor: Matthew N. Papakipos

Inventor's signature:  Date: 12/9/03
Residence: 818 Seale Avenue, Palo Alto, CA 94303
Post Office Address: Same as above
U.S.A. Country of Citizenship: U.S.A.

Full name of third inventor: Rui M. Bastos

Inventor's signature: _____ Date: _____
Residence: 2250 Monroe Street, # 235, Santa Clara, CA 95050
Post Office Address: Same as above
U.S.A. Country of Citizenship: Portugal

Full name of fourth inventor: John Erik Lindholm

Inventor's signature: _____ Date: _____
Residence: 20682 Rice Court, Saratoga, CA 95070
Post Office Address: Same as above.
U.S.A. Country of Citizenship: Canada

Full name of fifth inventor: Steven E. Molnar

Inventor's signature: _____ Date: _____
Residence: 200 Perry Creek Drive, Chapel Hill, NC 27514
Post Office Address: Same as above
U.S.A. Country of Citizenship: U.S.A.

Full name of sixth inventor: John S. Montrym

Inventor's signature: _____ Date: _____
Residence: 10451 Serra Street, Cupertino, CA 95014
Post Office Address: Same as above
U.S.A. Country of Citizenship: U.S.A.

Full name of seventh inventor: Walter E. Donovan

Inventor's signature: _____ Date: _____
Residence: 14228 Sobey Road, Saratoga, CA 95070
Post Office Address: Same as above
U.S.A. Country of Citizenship: U.S.A.

(Declaration ends on this page)

Attorney Docket No. NVDA P000679

COMBINED DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

This declaration is of the following type:

☒ original
☐ divisional
☐ continuation
☐ continuation-in-part

INVENTORSHIP IDENTIFICATION

My residence, post office address and citizenship are as stated below next to my name. I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

TITLE

**POSITION CONFLICT DETECTION AND AVOIDANCE IN A PROGRAMMABLE
GRAPHICS PROCESSOR**

SPECIFICATION IDENTIFICATION

The specification of which:

☒ is attached hereto
☐ was filed on _____ assigned application Serial No. _____
executed on even date herewith; or
☐ Express Mail No. _____ (as Serial No. is not yet known)
and was amended on _____ (if applicable)
☐ was described and claimed in PCT International Application No. _____
filed on _____ and as amended under PCT Article 19 on _____

ACKNOWLEDGMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose all information I know to be material to patentability in accordance with Title 37, Code of Federal Regulations, §1.56, and which is material to the examination of this application; namely, information where there is a substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent, and

☐ In compliance with this duty there is attached an Information Disclosure Statement in accordance with 37 CFR §1.98.

1 of 4

PRIORITY CLAIM (35 U.S.C. §119)

I hereby claim foreign priority benefits under Title 35, United States Code, §119, of any provisional or foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below, and have also identified below any provisional or foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed.

- ☒ No such applications have been filed.
- ☐ Such applications have been filed as follows:

A. Prior foreign/PCT application(s) filed within 12 mos. (6 mos. for design) prior to this application, and any priority claims under 35 U.S.C. §119

<u>Country/PCT</u>	<u>Application No</u>	<u>Date Filed</u>	<u>Priority Claimed</u>
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No

B. All foreign application(s), if any, filed more than 12 mos. (6 mos for design) prior to this U.S. application

Country:
Application No:
Filing date:

C. U.S. Provisional Application filed within 12 months prior to this application

<u>Serial No.</u>	<u>Filing Date</u>
-------------------	--------------------

PRIORITY CLAIM (35 U.S.C. §120)

I hereby claim the benefit under Title 35, United States Code, §120, of any United States application(s) or PCT international application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose information that is material to the examination of this application (namely, information where there is substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent) which occurred between the filing date of the prior application(s) and the national or PCT international filing date of this application.

- ☒ No such applications have been filed
- ☐ Such applications have been filed, as follows:

<u>Serial No.</u>	<u>Filing Date</u>	<u>Status</u> (patented, pending, abandoned)
-------------------	--------------------	---

POWER OF ATTORNEY

I hereby appoint the following attorneys and/or agents to prosecute this application and transact all business in the Patent and Trademark Office connected therewith:

I hereby appoint the following attorneys to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith: Stephen H. Pentlgrew, Reg. No. 33,978; Paul Carmichael, Reg. No. 18,679; Richard B. Domingo, Reg. No. 36,784; Joseph A. Vo, Reg. No. 43,871; Raymond R. Moser Jr., Reg. No. 34,682; B. Todd Patterson, Reg. No. 37,906; Eamon J. Wall, Reg. No. 39,414; Kin-Wah Tong, Reg. No. 39,400; Keltin M. Tackett, Reg. No. 32,008; Douglas H. Elliott, Reg. No. 32,982; James A. Sheridan, Reg. No. 25,426; Stephanie Winnar, Reg. No. 52,371; and John C. Carey, Reg. No. 51,530, provided that if any one of said attorneys ceases being affiliated with the law firm of MOSER, PATTERSON & SHERIDAN, LLP as partner, employee or of counsel, such attorney's appointment as attorney and all powers derived therefrom shall terminate on the date such attorney ceases being so affiliated.

Direct all telephone calls to James A. Sheridan at (650) 330-2310

Address all correspondence to:

MOSER, PATTERSON & SHERIDAN, LLP
695 Shrewsbury Avenue, Suite 100
Shrewsbury, New Jersey 07702

File No. NVDA P000879 US

DECLARATION

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and, further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Sec. 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patents issued thereon.

Full name of sole or
first inventor:

David B. Kirk

Inventor's
signature: _____

Date: _____

Residence:

1777 Lafayette Street, Suite 203, Santa Clara, CA 95050

Post Office Address:

Same as above.
U.S.A.

Country of Citizenship: U.S.A.

Full name of second
inventor:

Matthew N. Papakipos

Inventor's
signature: _____

Date: _____

Residence:

818 Seale Avenue, Palo Alto, CA 94303

Post Office Address:

Same as above
U.S.A.

Country of Citizenship: U.S.A.

3 of 4

Full name of third
inventor:

Rui M. Bastos

Inventor's
signature: _____

Date: _____

Residence:

2250 Monroe Street, # 235, Santa Clara, CA 95050

Post Office Address:

Same as above
U.S.A.

Country of Citizenship: Portugal

Full name of fourth
inventor:

John Erik Lindholm

Inventor's
signature: _____

Date: _____

Residence:

20682 Rice Court, Saratoga, CA 95070

Post Office Address:

Same as above.
U.S.A.

Country of Citizenship: Canada

Full name of fifth
inventor:

Steven E. Mohr

Inventor's
signature: *Steven E. Mohr*

Date: *12 Dec 2003*

Residence:

200 Perry Creek Drive, Chapel Hill, NC 27514

Post Office Address:

Same as above
U.S.A.

Country of Citizenship: U.S.A.

Full name of sixth
inventor:

John S. Montrym

Inventor's
signature: _____

Date: _____

Residence:

10451 Serra Street, Cupertino, CA 95014

Post Office Address:

Same as above
U.S.A.

Country of Citizenship: U.S.A.

Full name of seventh
inventor:

Walter E. Donovan

Inventor's
signature: _____

Date: _____

Residence:

14225 Sobey Road, Saratoga, CA 95070

Post Office Address:

Same as above
U.S.A.

Country of Citizenship: U.S.A.

(Declaration ends on this page)